P-651/ 986

NAVAL AIR TRAINING COMM

NAS CORPUS CHRISTI, TEXAS

CNAT P-651 (REV. 3-86) PAT

MASTER CURRICULUM GUIDE

NEWARK PUBLIC LIBRARY

JUL 8 1986

U. S. GOVT. PUBS.
DEPOSITORY 378

INTERMEDIATE STRIKE

1986

READEX FICHE

best copy available

D201.31/3;

DEPARTMENT OF THE NAVY
CHIEF OF NAVAL AIR TRAINING
NAVAL AIR STATION
CORPUS CHRISTI, TEXAS 78419-5100

313

2 APR 1986

1. CNAT P-651 PAT, "MASTER CURRICULUM GUIDE, Intermediate Strike" sets forth the procedures and guidance for the conduct of the Intermediate Strike phase of Naval Flight Training and is in support of CNATRAINST 1542.56B "Intermediate Strike Curriculum".

2. This publication outlines the plan of instruction, sequence of training and special instructions required for the average flight student to attain the skills, knowledge and levels of proficiency necessary to satisfactorily complete the Intermediate Strike syllabus.

3. Recommendations for changes shall be submitted to the Chief of Naval Air Training.

4. CNAT P-2275 (Rev. 9-84) PAT, is hereby canceled and superseded.

T. P. Hinson

T. P. HINSON
Assistant Chief of Staff for
Training and Operations

Distribution:
CNATRA (&) plus originals
VT-9 (100)
VT-19 (100)
VT-23 (200)
VT-26 (200)
VT-4 (98)

Diamond Anniversary 75th Year of Naval Aviation

Naval air power - in defense of freedom

CONTENTS

TITLE PAGE 1

CURRICULUM GUIDELINES. 2

GENERAL SEQUENCE GUIDELINE 8

TRAINING SUMMARY 9

TRAINING ALLOCATION BY MODULE. 11

TRAINING TIME ANALYSIS 12

OUTLINE OF TRAINING. 15

CHIEF OF NAVAL AIR TRAINING
INTERMEDIATE STRIKE TRAINING CURRICULUM

1. Course Title. Intermediate Strike Curriculum.

2. Catalog Number. Q-2A-0005.

3. Course Length (Optimum). Training days: 125; training weeks: 25; calendar days: 175.

4. Location. NAS Meridian, Meridian, MS; NAS Kingsville, Kingsville, TX; NAS Chase, Beeville, TX; and NAS Pensacola, Pensacola, FL.

5. Class Capacity. Variable.

6. Instructor Requirements. One flight instructor per 1.75 students.

7. Course Curriculum Manager. Commander, Training Air Wing ONE.

8. Quota Management Authority. Chief of Naval Air Training.

9. Quota Control. Chief of Naval Operations.

10. Implementation Date. When received.

CURRICULUM GUIDELINES

1. Objective. To develop the student's fundamental flight skills and knowledge required to commence the strike curriculum with a high expectation of successful completion and designation. Each module of instruction provides the student with the requisite flight skills to enter the strike curriculum and provide a sound basis for subsequent fleet assignment.

2. Sequencing. Intermediate Strike Curriculum consists of ten stages: Familiarization (FAM), Basic Instruments (BI), Radio Instruments (RI), Airways Navigation (AN), Out of Control Flight (OCF), Formation (FORM), Operation Navigation (ON), Night Familiarization (NF), Air to Air Gunnery (GUN) and Carrier Qualification (CQ). The training is sequenced in three distinct modules which integrate flight support periods, synthetic instrument trainer periods and actual flight. Modules 1 through 3 shall be completed in sequence with no more than one day overlap between module, i.e ONAV-1 may be flown the same day as NF-3. AN stage may be completed in MOD 2 or 3. Where a module contains synthetic instrument trainer periods and/or flights of more than one stage, the flights in the module may be flown in any order as long as:

a. All appropriate supportive training for the stage has been completed.

b. Individual stage flights are sequenced as numbered in the outline of training.

c. Flights are flown in sequence as stated by the sequencing guidelines.

3. Briefing Time. Adequate briefing time shall be provided. Instructors shall give sufficient explanation of the requirements of each flight and a post flight critique. For multi-plane flights, all flight members, i.e., instructors, observers, students, passengers, etc., will be briefed by the flight leader in the briefing area. Although students may be briefed early on fundamental techniques, all members of the flight will be in attendance for the final portion in order to firmly establish inflight procedures.

a. The minimum items that must be briefed with all members of the flight present are as follows:

(1) Weather.

(2) Sequence of events.

(3) Communication plan.

(4) Flight breakup and rendezvous instructions, including break interval at home field.

(5) Lead changes.

(6) Exceptions, omissions, additions, and substitutions to maneuvers and procedures described in the FTI and the briefing guide for the specific curriculum flight.

(7) No radio (NORDO) procedures.

(8) Applicable emergency procedures.

b. In all multi-plane flights involving two or more flight instructors, the formation leader will be fully responsible for compliance with the provisions of paragraph 3.

c. In all cases, a designated instructor shall retain the formation leader status as defined by OPNAV 3710.7 paragraphs 230-233.

4. Schedule Limitations

a. The student's working day from first scheduled event to last on-deck time shall not exceed 12 hours.

b. A minimum of 12 hours shall elapse between the student's last completed event/lecture and the first scheduled event/lecture of the following day.

c. The students maximum work week is six days followed by two days off. Maximum work week during CQ and detachments is six days followed by one day off.

d. Students will be limited to two events (aircraft/simulator) per day.

e. All night flights shall takeoff no earlier than 15 minutes after sunset.

f. Primary and secondary flight instructor shall be designated for each student as follows:

(1) Primary and secondary civilian simulator instructor during BI-1 through -10.

(2) Primary and secondary military flight instructor during BI-1 through -10 and FAM-1 through -9.

g. Not more than two nor less than one off-wing instructor event will be flown during FAM-1 through -9 and BI simulator events.

h. The following flights may be flown as legs of a cross-country flight not to exceed the limitations set by paragraph d above: AN-6 through 10X and ON-3 and ON-4X.

i. The following paired flights will be flown to ensure demonstrated and introduced items are done once from a wingman's position, (e.g., a student flying FORM-1 as the lead shall fly FORM-2 as the wingman):

(1) FORM-1, -2
(2) FORM-5, -6
(3) FORM-10, -11
(4) FORM-14, -15
(5) GUN-2, -3

j. The following minimums are required for Intermediate Strike Student Naval Aviators:

(1) Either ONAV or Gunnery stage completed and 170 landings prior to CQ-1
(2) 9.0 hours of night time before completion
(3) 17.0 hours of solo flight time before completion
(4) 100.0 hours of flight time before completion
(5) 4 arrested carrier landings and 2 carrier touch and go's

5. Flight Gear. Full flight gear will be worn on all scheduled simulator events to the maximum extent possible.

6. Solo Restrictions. Solo students are specifically prohibited from performing spins, steep turn stalls, simulated single engine operations/landings, boost-off operations/landings, unusual attitudes, instrument maneuvers, vertical recoveries, approach turn stalls, break turn stalls, minimum radius turns, and PPEL's. Landings are restricted to full and half flaps.

7. Emergency Procedures and Designation "Safe for Solo". Emergency procedures and malfunctions must be learned in such a manner as to build the student's confidence in the aircraft. During the pre-solo phase of training (prior to FAM-11), the student will be required to learn at least two emergency procedures daily until all procedures have been covered. These procedures will be accomplished during ground briefing initially and during flight as soon as student proficiency permits. A satisfactory level of performance in all critical emergency procedures is required prior to the first solo (FAM-11). In addition, the student shall successfully complete the following examinations prior to the FAM-10X: Course rules exam, open book NATOPS exam, closed book NATOPS exam, oral emergency preflight examination, with results entered on the FAM-10X ATF. The FAM-10X flight is the only flight that requires the safe-for-solo block to be checked. All other dual flights preceding solo flights within each stage should be regarded as a review for safe continuation in stage. In order to maintain familiarity with emergency procedures after completion of the pre-solo phase, the student shall be graded on appropriate emergency procedures (simulated or verbalized) on all flights.

8. Administration

a. Aviation Training Forms (ATF)

(1) A CNATRA ATF Form shall be completed for each curriculum flight. All items graded unsatisfactory, below average or above average shall be commented upon in the remarks section.

(2) Flights requiring dual touch-and-go landings shall include remarks on each landing.

(3) Solo FAM flights shall be graded for headwork only unless circumstances dictate assignment of other grades. Solo's may be assigned grades by the RDO, ODO, etc., for observed performance.

(4) All items called for in the curriculum must be completed. Incompleted events may be completed during the following event if time and fuel are available. On a flight completing a previously incompleted event, only the omitted items should be performed and graded. Headwork, basic airwork, and procedures should be graded only on the flight comprising the majority of the event, unless circumstances dictate otherwise.

(5) The following flights are considered progress checks and require a jacket review by the check instructor. BI-6SX, BI-11X, EP-5SX, FAM-10X, FAM-16X, RI-5SX, RI-10X, FORM-8X, FORM-12X, FORM-15X, NF-1X, ONAV-4X, GUN-6X, OCF-3X, AN-5SX, AN-10X, CQ-2X, CQ-10X, CQ-11X. BI-7 and AN-6 also require jacket reviews.

(6) On multi-plane solo flights, completed but unobserved items shall be graded by the formation leader by writing NOB in the grading column.

(7) Shotgun instructors (weather safety pilots) will not grade students. hey may however, provide inputs on safety items.

(8) CQ ATF's shall be completed for all CQ flights but graded only on Q-1, -2, -4, -6, -8, -10X, -11X. CQ-11X will weigh 50 percent of the total CQ tage grade. Each nongraded CQ flight will be evaluated as part of the following raded CQ flight. Nongraded ATF's will be retained in the student's training acket and be graded if warranted by unsatisfactory performance.

(9) ATF's shall be graded the day in which the flight is flown.

(10) ATJ's shall be reviewed weekly and prior to completion of each check light with a written statement on student trends and any problem areas.

b. Warm-up Flights. Warm-up flights may be given as necessary to regain light proficiency after prolonged delays in training. The following specific uidelines govern warm-up flights.

(1) All warm-up flights shall be flown dual. If it is determined that a student scheduled for a solo flight requires a warm-up he shall refly his previous stage flight as the warm-up and, upon successful completion, fly the solo flight. If it is determined that a student scheduled for a dual flight requires a warm-up he shall fly his dual flight as a "warm-up if required." If the student's proficiency after the delay in training is consistent with his normal progress the flight may be counted as his next flight.

(2) If it is determined that a student scheduled for a simulator requires a warm-up he shall fly his warm-up in the simulator. If it is determined that a student scheduled for an aircraft event requires a warm-up he shall fly his warm-up in an aircraft. Any instrument stage warm-up may be flown in the simulator.

(3) One "warm-up if required" shall be awarded for dual flights when there has been a delay of six calendar days in stage or between modules.

(4) One warm-up flight shall be awarded when there has been a three calendar day delay between the following flights: FAM-10X and FAM-11, NF-1X and NF-2, CQ-10X and CQ-11X.

(5) One warm-up flight shall be awarded prior to all solo or check flights when there has been a 6 calendar day delay since the previous flight except as noted in paragraph (4) above.

(6) Warm-up flights are not required in the OCF stage. OCF flights may be utilized to warm-up FAM flights.

(7) If the number of calendar days delay in stage exceeds 20, the case shall be referred to the squadron commanding officer to determine if more than one warm-up flight/simulator shall be awarded.

(8) Warm-up ATFs do not have to be marked with an unsatisfactory grade to justify a warm-up if the overall performance is not up to standards for that flight. Warm-up grades are not included in the cumulative totals and unsatisfactory grades do not constitute a down unless:

(a) The student demonstrates flagrant safety or flight rules violations or dangerous tendencies.

(b) The student is not safe for solo and the next regularly scheduled event is a solo flight.

c. Master Curriculum Guide. The Master Curriculum Guide is constructed to be used as standardized kneeboard cards. Appropriate pages may be brought to the brief and given to the instructor for utilization during the flight.

9. Waiving Flights or Simulators. The flights and simulators listed are the minimum number to be completed by all students. No provisions of this curriculum shall be waived without authorization from the Chief of Naval Air Training.

10. Weather Safety Pilots (shotgunning). All weather safety pilots shall be designated instructors qualified in stage involved or IUTs who have completed at least two flights in stage. CQ flights may be shotgunned by any NATOPS and instrument qualified instructor. FAM-11, CQ-10X, and CQ-11X will not be shotgunned for any reason. All solo flights that are shotgunned must be annotated on the student ATF. Students require 17 hours of solo time to complete Intermediate training.

11. Weather Minimums

STAGE	FLIGHT	WEATHER REQUIREMENTS
FAM	1-6	Local weather minima for touch-and-go landings. Maximum of 3 flights may be flown VFR on top.
*FAM	7-17	Local weather minima for touch-and-go landings and adequate reference for aerobatic maneuvers.
OCF	1-3	Visual ground reference in spin area. VMC throughout flight.
BI/RI/AN	ALL	Appropriate TACAN/ADF/GCA minima with suitable alternate (OPNAVINST 3710.7 series applies).
ONAV	1-4X	3000/5.
FORM	1-4	A maximum of 2 events may utilize TACAN circling minima with suitable alternate and VFR on top. At least 2 shall utilize local minima for landings, running rendezvous, and VFR recoveries.
*FORM	7-9, 12-17	Local weather minima for touch-and-go landings and VFR on top.
FORM	5-6	Circling minima for section takeoff demo.
FORM	10-11	Basic VFR for section takeoff introduction.
*NF	1-3	No ceiling below flight altitude and no less than 5 miles visibility on the route. Local minima for touch-and-go landings.
GUN	1-6X	TACAN circling minima with suitable alternate and usable weather in the gunnery range.

*GUN	7-8	VMC throughout.
*CQ	ALL	As directed by TRAWING Commanders and carrier OPLAN.

*Student solos shall maintain VMC at all times.

12. Definitions. The following terms and symbols found in the curriculum will be applied to flight instruction as defined in this instruction.

a. "Brief"	Instructor:	Quiz the student on the applicable procedures.
	Student:	Responsible for all procedures prior to the briefing.
	Item:	May be graded as unsatisfactory or AA on procedural knowledge. They are labeled "Brief or "B".
b. "Demonstrate"	Instructor:	Perform the maneuver with accompanying description.
	Student:	Observes the maneuver. Responsible for the procedures prior to the demonstration.
	Item:	May be graded as unsatisfactory or AA on procedural knowledge. They are labeled "Demo" or "D".
c. "Introduced"	Instructor:	At his option, may perform the maneuver with accompanying description or may coach the student through the maneuver without demonstration.
	Student:	Must perform the maneuver with coaching as necessary. Responsible for procedures prior to the introductions.
	Item:	Graded on the ATF and labeled "I".
d. "Practice"	Instructor:	Coaches the student as necessary, or he may demonstrate the maneuver if he so chooses.
	Student:	Must perform the maneuver with assistance as necessary from the instructor.
	Item:	Graded on the ATF and labeled "P".
e. "Review"	Instructor:	Observes and grades the maneuver without coaching the student. Airborne critique of the student's performance is at the option of the instructor.
	Student:	Expected to perform the maneuver without coaching and devoid of procedural error at a level acceptable to warrant progress into the next stage of training.
	Item:	Graded on the ATF and labeled "R".
f. "DND"	Did Not Do:	Placed in the grading columns on ATFs in front of those items that were not done or completed.

g. "NOB" Not Observed: Placed in the grading column on solo ATFs in front of those items that were completed but not observed.

h. S-Coded Flights. Student instructional flights designated by the letter "S" (e.g., BI-1S) are flown in the 2F101 T-2C flight simulator.

i. For other curriculum definitions, refer to CNATRAINST 1500.4.

13. Academic Training. Academic training shall be accomplished in accordance with the Sequencing Outline. Unit criterion tests and end of course tests will be administered, graded, and recorded in accordance with the procedures outlined in CNATRAINST 1500.4. Acceptable standards are also given in that instruction.

14. Performance Criteria. Flight Performance criteria are delineated as standards of performance in the Specific Training Objectives outlined in CNATRAINST 1542.56, "Curriculum Outline," Intermediate Strike Flight Training.

General Sequencing Guidelines. The following sequencing guidelines shall be followed:

a. MOD-1
- Ground School prior to BI-1
- RI-1 after BI-11X
- FAM-1 after BI-7
- EP-5X prior to FAM-10
- FAM-12 prior to RI-5X
- OCF-1 after FAM-9 but prior to FAM-13
- RI-8 may be flown prior to RI-7S

b. MOD-2
- EP-6 after FORM-1 prior to FORM-8X

c. MOD-3
- EP-7 after GUN-1 prior to GUN-6X
- OCF-3X prior to GUN-7
- EP-8 prior to CQ-11X
- AN-10X prior to CQ-1
- CQ stage may not be commenced prior to completion of either ONAV or GUNs

TRAINING SUMMARY

FLIGHTS

STAGE	SYMBOL	FLIGHT EVENTS	DUAL EVENTS	DUAL HOURS	SOLO HOURS	TOTAL HOURS
Basic Instruments	BI	3	3	4.5		4.5
Familiarization	FAM	17	13	19.5	5.2	24.7
Radio Instruments	RI	3	3	4.8		4.8
Out of Control Flight	OCF	3	3	3.6		3.6
Formation	FORM	17	13	18.2	5.6	23.8
Airways Navigation	AN	5	5	11.9		11.9
Night Familiarization	NF	3	1	1.5	2.6	4.1
Operational Navigation	ON	4	4	5.2		5.2
Gunnery Gunnery	GUN	8	6	7.2	2.4	9.6
Carrier Qualification	CQ	11	2	1.2	6.6	7.8
Totals		74	53	77.6	22.4	100.0

FLIGHT SUPPORT

STAGE	SYMBOL	PERIOD	HOURS
Cockpit Orientation	CO	1	2.0
Course Rules	CR	2	4.0
Emergency Flight Procedures	EMFP	4	5.5
Basic Instrument Flight Procedures	BIFP	10	7.7
Familiarization Flight Procedures	FAMFP	8	7.2
Out of Control Flight Procedures	OCFP	2	2.8
Radio Instrument Flight Procedures	RIFP	3	2.2
Form Flight Procedures	FFP	4	4.3
Airways Navigation Flight Procedures	ANFP	3	3.0
Night Fly Flight Procedures	NFFP	3	1.8
Operational Navigation Flight Proced.	ONFP	1	2.0
Gunnery Flight Procedures	GFP	4	3.0
CQ Flight Procedures	CQFP	3	4.0
Totals		48	49.5

SIMULATORS

STAGE	SYMBOL	PERIOD	HOURS
Cockpit Orientation	CO	1	1.5
Emergency Procedures	EP	8	12.0
Basic Instruments	BI	8	12.0
Radio Instruments	RI	7	10.5
Airways Navigation	AN	5	8.5
Totals		29	44.5

ACADEMICS

SUBJECT	SYMBOL	PERIOD	HOURS
Aviation Student Information/ Simulator Orientation	ASI	3	4.8
Engineering	ENG	9	13.4
Aerodynamics	AERO	7	7.0
Instrument Navigation	IFRNAV	14	21.7
Operational Navigation	ONAV	7	14.0
Totals		38	60.9

TRAINING ALLOCATION BY MODULE

MOD	FLIGHT HOURS	FLIGHT EVENTS	SIMULATOR HOURS	SIMULATOR EVENTS	ACADEMIC & FLT SUPPORT HOURS	CURRIC. DAYS	TRAINING DAYS
1	36.4	25	31.5	21	72.3	50.63	62.57
2	39.8	25	10.0	6	9.1	25.56	31.59
3	23.8	24	3.0	2	29.0	24.54	30.33
Totals	100.0	74	44.5	29	110.4	100.73	124.49

TRAINING TIME ANALYSIS

The following table shows the additional training time involved for each programmed curriculum hour, flight or simulator event. The figures represent the minimum average time a student is involved in the direct learning process, either in preparation for, or utilizing training equipment.

ADDITIONAL TRAINING TIME PER PROGRAM CURRICULUM HOUR (ch) OR EVENT (e)

Training Area	Preparation and Study	Brief and Debrief	Preflight/Start Taxi	Total (k)
Flight	1.0	1.5	.5	3.0*
Simulator	1.5	1.0		2.5*
Academic and Flight Support	0.5			0.5**

* Training time per event
** Training time per curriculum hour

a. Administrative time, transit time from activity to activity, meals, scheduling delays and military watchstanding duties are not considered. The student training week is based on six hours of training per day, five days a week (30 hours). Computation of student training is based on the following formula:

ch = curriculum hours
e = events
k = additional training time per curriculum hour or event
Tc = Total Curriculum Time

$$\frac{ch + (ch \times k) \text{ or } (e \times k)}{6 \text{ (days) or } 30 \text{ (weeks)}} = Tc \text{ (days) or (weeks)}$$

The Tc calculated is the total contact time required to complete this phase of training.

b. Time to Train (Tt)

The following factors are considered in computing Time to Train: weather, unsatisfactory events and associated delays, medical groundings and flight or simulator events cancelled due to lack of instructor or equipment availability. The combination of these factors constitutes additional time required to train and is expressed as a percentage (t) of the Curriculum Time (Tc). The t for Intermediate Strike is 23.6%. The formula for computing Time to Train (Tt) is as follows:

$$TC + (Tc \times t) = Tt$$

c. Intermediate Strike Training Time

Training Area	Curriculum Days	Weeks
Flight: 100 hours 74 events	53.67	10.73
Simulator: 44.5 hours 29 events	29.5	3.9
Academic and Flight Support 110.4	27.6	5.52
Curriculum Time (Tc)	100.77	20.15

d. Time to Train

Curriculum (Tc)	100.77	20.15
X t	X 23.6%	X 23.6%
Time to Train	124.55	24.90

PERIOD REQUIREMENTS	DESCRIPTION	DURATION

MODULE I

Objective: When the student completes this module he will be able to state the characteristics, theory and operations of the aircraft during instrument navigation and IFR environments. Also he will apply the proper control techniques, both normal and emergency, for all VFR maneuvers from spins/aerobatics to landing in all configurations.

MOD 1-1	ASI-1 Welcome Aboard	1.0
	1. Training publications are issued (FTI/SW and Master Curriculum Guide) and explained to the student.	
MOD 1-1.1 CI	ASI-2 Simulator Orientation	1.9
	1. Simulator use procedures are explained, local procedures defined as well as simulator flight procedures explained.	
MOD 1-1.2 CI	ASI-3 Simulator Orientation	1.9
	1. Simulator Flight Procedures to assist the students transition to the simulator environment and maximize productive training time on future simulator events.	
MOD 1-2 NAMTD	ENG-1 T-2C Electrical Systems	1.8
MOD 1-3 NAMTD	ENG-2 T-2C Instruments	0.8
MOD 1-4 NAMTD	ENG-3 T-2C Emergency Escape System	1.2
MOD 1-5 NAMTD	ENG-4 T-2C Liquid Oxygen System	0.3
MOD 1-6 NAMTD	ENG-5 T-2C Environmental Control System	0.8
MOD 1-7 NAMTD	ENG-6 T-2C Electronic Equipment	1.5
MOD 1-8 NAMTD	ENG-7 T-2C Hydraulic Systems	3.0
MOD 1-9 NAMTD	ENG-8 T-2C Power Plants and Related Systems	3.0
MOD 1-10 NAMTD	ENG-9 T-2C Review and Examination	1.0

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 1-11 Ground School	AERO-1 Thrust	1.0
MOD 1-12 Ground School	AERO-2 T-2C Vgn	1.0
MOD 1-13 Ground School	AERO-3 T-2C Stability	1.0
MOD 1-14 Ground School	AERO-4 T-2C Stalls	1.0
MOD 1-15 Ground School	AERO-5 T-2 Angle of Attack	1.0
MOD 1-16 Ground School	AERO-6 Maneuvering Flight	1.0
MOD 1-17 Ground School	AERO-7 Final Examination	1.0
MOD 1-18 Ground School	IFRNAV-1 DOD Flight Information Publications	1.0
MOD 1-19 Ground School	IFRNAV-2 IFR Enroute Supplement/Information Handbook	1.0
MOD 1-20 Ground School	IFRNAV-3 High Altitude Enroute Charts	0.8
MOD 1-21 Ground School	IFRNAV-4 Air Space Structure Review	0.8
MOD 1-22 Ground School	IFRNAV-5 IFR Departure Procedures	1.0
MOD 1-23 Ground School	IFRNAV-6 IFR En route Procedures	1.5
MOD 1-24 Ground School	IFRNAV-7 Holding Patterns and Procedures	0.8

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 1-25 Ground School	IFRNAV-8 Penetrations and Approaches	0.5
MOD 1-26 Ground School	IFRNAV-9 High Altitude Instrument Approach Procedures	1.0
MOD 1-27 Ground School	IFRNAV-10 IFR Terminal Procedures	0.5
MOD 1-28 Ground School	IFRNAV-11 Jet Stream and Meteorology Review	1.0
MOD 1-29 Ground School	IFRNAV-12 Fuel, Weather, and Alternate Airfield Planning	2.0
MOD 1-30 Ground School	IFRNAV-13 Air Navigation Computer	1.8
MOD 1-31 Ground School	IFRNAV-14 Flight Planning - Jet Flight Log	1.0
MOD 1-32 Ground School	IFRNAV-15 Flight Planning - Military Flight Plan DD Form 175	1.0
MOD 1-33 Ground School	IFRNAV-16 Flight Planning - Problem One	2.0
MOD 1-34 Ground School	IFRNAV-17 Flight Planning Problem Two	2.0
MOD 1-35 T-2C Static Lecture	CO-1 Checklists Dry Run: preflight, seat check, prestart, start, pretaxi, takeoff, after landing, shutdown, ensure student's gear fits properly	2.0

NO	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 1-36 2F101 Motion	CO-2S CS_____ BINGO_____ ALT_____ _____ _____ _____ _____ _____ _____	1.5

Brief:

a. Oxygen mask hook up
b. Harness hook up
c. "G" suit fit and hook up
d. Starter/ignition limits

Demonstrate:

a. Instrument takeoff
b. Level speed change to landing configuration

Introduce:

a. Start and ground ops checklists
b. Battery start (2 minimum)
c. Local communications procedures
d. MRT checks
e. Inflight checklists
f. AOA/airspeed check

Practice:

a. After landing/shutdown checklists

NOTE: Ensure students' gear works properly.

NO	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 1-37 Ground School	IFRNAV-18 Final Examination	2.0
MOD 1-38 Lecture	CR-1 Explain course rules, including outlying fields (OLF) course rules as applicable. Discuss local airspace assignments and usage procedures and emphasize area orientation with regard to TACAN	2.0
MOD 1-39 Lecture	EMFP-1 T-2 Survival Equipment and Usage	1.5
MOD 1-40 Lecture	EMFP-2 Introduction to the Pocket Checklist	2.0

NO.	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
	BASIC INSTRUMENT FLIGHT PROCEDURES	
MOD 1-41 Lecture	BIFP-1 Introduction to Basic Instruments	1.2
MOD 1-42 Lecture	BIFP-2 Basic Transitions	0.5
MOD 1-43 Lecture	BIFP-3 Instrument Turns	0.5
MOD 1-44 Lecture	BIFP-4 Introduction to BDHI and TACAN Orientation	1.3
MOD 1-45 Lecture	BIFP-5 Instrument Takeoff and Departure Procedures	0.5
MOD 1-46 Lecture	BIFP-6 Vertical Instrument Maneuvers	0.5
MOD 1-47 Lecture	BIFP-7 Terminal Arrival Procedures	0.5

NO.	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 1-48 2F101 Motion	BI-1S CS_____ BINGO_____ ALT_____ _____ _____ _____ _____ _____ _____	1.5

Demonstrate:

a. TACAN approach
b. GCA voice procedures
c. PAR pattern
d. PAR final approach
e. Missed approach/DH.

Introduce:

a. Instrument scan
b. Instrument checklist
c. Climb/calibration turns
d. Constant angle of bank turns
e. Turn pattern
f. Constant rate climbs/descents
g. Level speed changes

Practice:

a. All checklists
b. Battery start procedures
c. Engine shutdown

NO	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 1-49 2F101 Motion	BI-2S CS_____ BINGO_____ ALT_____ _____ _____ _____ _____ _____ _____	1.5

Demonstrate:

a. S-1 pattern
b. S-3 pattern

Introduce:

a. TACAN approach
b. One-half standard rate turns
c. Standard rate turns
d. GCA voice procedures
e. GCA pattern
f. ASR final approach
g. Missed approach/MDA
h. Response to controller
i. APU start

Practice:

a. Instrument scan
b. All checklists
c. Instrument take-off
d. Climb/calibration turns
e. Turn pattern
f. Constant AOB turns to heading
g. Level speed changes

NO.	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 1-50 Lecture	BIFP-8 Partial Panel	0.7
MOD 1-51 Lecture	BIFP-9 Stalls and Unusual Attitudes	0.5

NO.	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 1-52 2F101 Motion	BI-3S CS_____ BINGO_____ ALT_____ _____ _____ _____ _____ _____ _____	1.5

Introduce:

a. Standard instrument departures
b. Level speed change in 1/2 SRT
c. S-1 pattern
d. Standby gyro partial panel
e. Radio procedures
f. PAR final approach

Practice:

a. Instrument scan
b. All checklists
c. Instrument takeoff
d. Climb/calibration turns
e. Turn pattern
f. 1/2 SRT and standard rate turns
g. Level speed changes
h. Constant rate/airspeed climbs and descents
i. GCA pattern
j. TACAN penetration/approach
k. Missed approach

NO.	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 1-53 2F101 Motion	EP-1S CS_____ BINGO_____ ALT_____ _____ _____ _____ _____ _____ _____	1.5

Brief:

a. ICS/UHF failure
b. Arrestments
   (1) On takeoff abort
   (2) Short-field arrestments
   (3) Long-field arrestments
c. Severe nosewheel shimmy
d. Oxygen system malfunctions

Introduce:

a. Hung start
b. Wet start
c. Hot start
d. Fire on deck
e. Tailpipe fire on start/shutdown
f. No RPM on start
g. No oil pressure on start
h. Idle overtemp
i. Brake failure on deck
j. Emergency egress
k. MRT check malfunctions
l. Takeoff abort (low/high speed)
m. Unsafe gear up
n. Fuel transfer failure
o. Fuel boost pump failure
p. Canopy malfunctions

Practice:

a. All checklists

NO	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 1-54 2F101 Motion	BI-4S CS_____ BINGO_____ ALT_____ _____ _____ _____ _____ _____ _____	1.5

Introduce:

a. S-3 pattern
b. Needle/ball straight and level
c. Needle/ball timed turns
d. Magnetic compass usage

Practice:

a. All checklists
b. Radio procedures
c. Instrument scan
d. Instrument takeoff
e. Standard instrument departure
f. Climb/calibration turns
g. Turn pattern
h. Level speed changes
i. Level speed change in one-half SRT
j. S-1 pattern
k. One-half SRT and SRT
l. Standby gyro partial panel
m. GCA pattern
n. PAR final approach
o. Missed approaches
p. TACAN penetration/approach

NO.	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 1-55 2F101 Motion	BI-5S CS_____ BINGO_____ ALT_____ _____ _____ _____ _____ _____ _____	1.5

Introduce:

a. Needle/ball constant rate/airspeed climbs/descents
b. Full panel unusual attitudes
c. Approach to stall
d. ASR approach

Practice:

a. Instrument scan
b. All checklists
c. Radio procedures
d. Instrument takeoff
e. Standard instrument departures
f. Climb/calibration turns
g. Turn pattern
h. Level speed changes in one-half standard rate turns
i. One-half SRT and SRT
j. Vertical instrument maneuvers
k. Standby gyro partial panel
l. Needle/ball partial panel
m. TACAN penetration/approach
n. GCA pattern
o. GCA final approach
p. Missed approaches

NO.	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 1-56 2F101 Motion	EP-2S CS_____ BINGO_____ ALT_____ _____ _____ _____ _____ _____ _____	1.5

Brief:

a. Ejection sequence
b. Controlled ejection
c. Immediate ejection
d. Failure of seat to eject
e. Ditching
f. In-flight vibrations
g. Electrical fire in flight
h. Complete electrical failure

Introduce:

a. Split flaps
b. Cycling flaps
c. Flap switch failure
d. Thermal runaway
e. Generator failure - single and dual
f. Inverter failures - #1 and #2
g. UHF communications failures
h. Oil pressure malfunctions airborne
i. Single engine failure
j. Dual engine failure
k. Normal airstarts
l. Abbreviated airstarts
m. Failure of pressure instruments
n. AOA failure/error

Practice:

a. All checklists
b. Start malfunctions (2 minimum)
c. Idle temp/oil pressure malfunctions
d. MRT Check malfunctions
e. Takeoff abort.

NO.	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 1-57 2F101 Motion	BI-6SX CS_____ BINGO_____ ALT_____ _____ _____ _____ _____ _____ _____	1.5

Review:

a. All checklists
b. Radio procedures
c. Instrument scan
d. Instrument takeoff
e. Standard instrument departure
f. Climb/calibration turns
g. Turn pattern
h. One-half standard rate turns and standard rate turns
i. Level speed changes in one-half standard rate turn and standard rate turn
j. Vertical instrument maneuvers
k. Standby gyro partial panel
l. Needle/ball partial panel
m. Full panel unusual attitude
n. Approach to stall
o. TACAN penetration/approach
p. GCA/ASR pattern
q. GCA/ASR final approach
r. Missed approaches

NO.	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 1-58 2F101 Motion	EP-3S CS_____ BINGO_____ ALT_____ _____ _____ _____ _____ _____ _____	1.5

Brief:

a. Landing gear safety disable switch usage
b. Smoke and fumes in cockpit
c. Air conditioning/pressurization failures
d. Structural failure

Introduce:

a. Engine fire/failure after takeoff
b. Single engine approach and waveoff
c. PCL linkage failure
d. Engine fire airborne - compressor and burner
e. Trim failures/runaway trim
f. Hydraulic pump failure/system leak
g. Hydraulic boost failure
h. Landing gear emergency extension
i. Speed brake malfunctions
j. Unsafe gear down - normal hydraulics
k. Brake failure - Airborne
l. Controlled ejection
m. Immediate ejection
n. Field arrestments
o. All checklists

Practice:

a. Ground/start emergencies
b. Takeoff emergencies
c. Airstarts - normal and abbreviated
d. Electrical emergencies
e. Flap malfunctions

NO	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 1-59 T-2C DUAL SNA/RS HOODED	BI-7 CS_____ BINGO_____ ALT_____ _____ _____ _____ _____ _____ _____	1.5

Demonstrate:

a. Preflight

Introduce:

a. All checklists
b. Radio procedures
c. Instrument scan
d. Instrument takeoff
e. Standard instrument departure
f. Climb/calibration turns
g. Turn pattern
h. Level speed changes
i. Level speed changes with one-half standard rate turn and standard rate turn
j. S-1 pattern
k. S-3 pattern
l. Standby gyro partial panel
m. Needle/ball partial panel
n. Full panel unusual attitude
o. Approach to stall
p. TACAN penetration/approach
q. GCA pattern
r. GCA final approach
s. Missed approaches

NO.	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
	FAMILIARIZATION FLIGHT PROCEDURES	
MOD 1-60 Lecture	FAMFP-1 Taxi, Takeoff, Climbs and Descents	0.7
MOD 1-61 Lecture	FAMFP-2 Exercise Maneuvers	2.0
MOD 1-62 Lecture	FAMFP-3 Normal Landing Pattern	1.5
MOD 1-63 Lecture	FAMFP-4 One-half flap, no flap, boost off, single engine landings; no flap, no trim, no speed brake landing	0.8

NO.	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 1-64 T-2C DUAL SNA/FS	FAM-1 CS_____ BINGO_____ ALT_____ _____ _____ _____ _____ _____ _____	1.5

Brief:

a. Hot start
b. Hung start
c. Wet start
d. Brake failure
e. ICS/UHF failure

Demonstrate:

a. Preflight
b. Takeoff
c. Climb
d. Level off
e. Radio procedures
f. Recovery/pattern entry (See NOTE)

Introduce:

a. Taxi (after landing)
b. Ground operations
c. Checklists
d. Course rules
e. Turn pattern
f. Break turn stall
g. Power off stall
h. Landing attitude maneuver
i. Landing attitude stall
j. Slow flight
k. Normal/cruise descent
l. Normal pattern
m. Full flap landings (4 minimum)

NOTE: Normal recovery in FAM/FORM stages should be to the break, unless precluded by weather or other pattern entry is specified.

NO	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 1-65 T-2C DUAL SNA/PS	FAM-2 CS_____ BINGO_____ ALT_____ _____ _____ _____ _____ _____ _____	1.5

Brief:

a. Engine fire on takeoff
b. Aborted takeoff
c. Fire on deck
d. Tailpipe fire
e. Smoke/fumes in cockpit

Demonstrate:

a. UHF/ADF procedures
b. ARR-60 (NORDO procedures)

Introduce:

a. Preflight
b. Radio procedures
c. Takeoff
d. Climb
e. Level off
f. Approach turn stall
g. Recovery/pattern entry

Practice:

a. Ground operation
b. All checklists
c. Course rules
d. Turn pattern
e. Break turn stall
f. Power off stall
g. Landing attitude maneuver
h. Landing attitude stall
i. Slow flight
j. Normal pattern
k. Full flap landings (4 minimum)

NO.	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 1-66 T-2C DUAL SNA/FS	FAM-3 CS_____ BINGO_____ ALT_____ _____ _____ _____ _____ _____ _____	1.5

Brief:

a. Fire lights in flight
b. Cycling wing flaps

Introduce:

a. Half flap landings

Practice:

a. Preflight
b. Ground operations
c. Radio procedures
d. All checklists
e. Takeoff
f. Climb
g. Course rules
h. Turn pattern
i. Break turn stall
j. Power off stall
k. Landing attitude maneuver
l. Landing attitude stall
m. Approach turn stall
n. Slow flight
o. Recovery/pattern entry
p. Normal pattern
q. Full flap landings

NO.	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 1-67 2F101 Motion	BI-88 CS_____ BINGO_____ ALT_____ _____ _____ _____ _____ _____ _____	1.5

Introduce:

a. No-gyro GCA
b. Standby gyro GCA

Practice:

a. All checklists
b. Radio procedures
c. Instrument scan
d. Instrument takeoff
e. AOA/airspeed control (GCA final)
f. GCA Pattern
g. Heading control (GCA final)
h. Glideslope control
i. Response to controller
j. Missed approaches

NOTE: Minimum of 6 GCA's required.

NO	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 1-68 T-2C DUAL SNA/FS	FAM-4 CS_____ BINGO_____ ALT_____ _____ _____ _____ _____ _____ _____	1.5

Brief:

a. Total hydraulic failure
b. Hydraulic boost failure
c. Unsafe gear down

Introduce:

a. In-flight emergencies
b. Down wind entry
c. No flap landings

Practice:

a. Preflight
b. Ground operations
c. All checklists
d. Radio procedures
e. Takeoff
f. Departure/climb
g. Course rules
h. Turn pattern
i. Break turn stall
j. Power off stall
k. Landing attitude maneuver
l. Landing attitude stall
m. Approach turn stall
n. Slow flight
o. Normal pattern
p. Full flap landing
q. Half-flap landing

NO.	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 1-69 T-2C DUAL SNA/FS HOODED	BI-9 CS_____ BINGO_____ ALT_____ _____ _____ _____ _____ _____ _____	1.5

Practice:

a. All checklists
b. Radio procedures
c. Instrument scan
d. Instrument takeoff
e. AOA/airspeed control (GCA final)
f. GCA Pattern
g. Heading control (GCA final)
h. Glideslope control
i. Response to controller
j. No-gyro GCA
k. Standby gyro GCA
l. Missed approaches

NOTE: Minimum of 5 GCA's required; 6 desired.

NO	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION		DURATION
MOD 1-70 Lecture	FAMFP-5	Unusual Attitudes and Vertical Recoveries	0.7
MOD 1-71 Lecture	FAMFP-6	Optical Landing System	0.5

NO.	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 1-72 T-2C DUAL SNA/FS	FAM-5 CS_____ BINGO_____ ALT_____ _____ _____ _____ _____ _____ _____	1.5

Brief:

a. Engine failure in-flight
b. Airstart
c. Locked brakes on touchdown
d. Ejection
e. Ejection seat failure

Introduce:

a. Boost off landings
b. No flap, trim, S/B landings
c. Boost off exercise

Practice:

a. Preflight
b. Ground Operations
c. All checklists
d. Radio procedures
e. Takeoff
f. Departure/climb
g. Course rules
h. Clean stalls
i. Dirty stalls
j. Inflight emergencies
k. Recovery/pattern entry
l. Normal pattern
m. Full flap landings
n. Half-flap landings
o. No flap landings

NO	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD
REQUIREMENTS DESCRIPTION

MOD 1-73 EP-45
JP101
Motion CS_____ BINUS_____ ALT_____

Brief:

a. Tire failure

Introduce:

a. Asymmetric fuel loads T/O, inflight, landing

Training:

a. All checklists
b. Start/ground malfunctions (2)
c. Takeoff emergencies
d. Electrical system malfunctions (2)
e. Trim system malfunctions
f. Flap malfunctions
g. Oil pressure malfunctions
h. Hydraulic system malfunctions
i. AFA failure/error
j. Landing gear malfunctions (nosewheel steer)
k. Engine fire, airborne
l. Engine failure, single and dual
m. Single engine operations
n. Airstarts - normal and abnormal
o. Fuel system malfunctions
p. Ejection procedures.

NO.	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 1-74 T-2C DUAL SNA/FS	FAM-6 CS_____ BINGO_____ ALT_____ _____ _____ _____ _____ _____ _____	1.5

Brief:

a. Engine failure on takeoff
b. Airconditioning failure
c. Airconditioning full hot
d. PCL linkage failure
e. Boost pump failure

Introduce:

a. No flap, full-stop landing
b. Single engine landings
c. Unusual attitudes
d. Single engine exercise

Practice:

a. Preflight
b. Ground operations
c. All checklists
d. Radio procedures
e. Takeoff
f. Departure
g. Clean stalls
h. Dirty stalls
i. In-flight emergencies
j. Recovery/pattern entry
k. Normal pattern
l. Full flap landings
m. Half flap landings
n. No flap, trim, S/B landings
o. Boost off landings

NO.	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 1-75 Lecture	FAMFP-7 Introduction to Aerobatic Maneuvers	0.5

NO.	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 1-76 T-2C DUAL SNA/FS	FAM-7 CS_____ BINGO_____ ALT_____ _____ _____ _____ _____ _____ _____	1.5

Brief:

a. Tip tank transfer failure
b. Runaway trim
c. Cracked canopy/windscreen
d. Smoke and fumes
e. Engine fire on takeoff

Introduce:

a. Steep turn stall
b. Minimum radius turn
c. Aileron roll
d. Wingover

Practice:

a. Preflight
b. Ground operations
c. All checklists
d. Radio procedures
e. Takeoff/departure
f. Clean stalls
g. Dirty stalls
h. Unusual attitudes
i. Inflight emergencies
j. Recovery/pattern entry
k. Normal pattern
l. Full/half flap landings
m. Landings - other configurations

NO.	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 1-77 2F101 Motion	BI-10S CS_____ BINGO_____ ALT_____ _____ _____ _____ _____ _____ _____	1.5

Practice:

a. All checklists
b. Radio procedures
c. Instrument scan
d. Instrument takeoff
e. Standard instrument departure/climb
f. Level speed changes in one-half standard rate turns and standard turn rate
g. Vertical instrument maneuvers
h. Standby gyro partial panel
i. Needle/ball partial panel
j. Full panel unusual attitude
k. Approach to stall
l. TACAN penetration/approach
m. CCA pattern
n. GCA final approach
o. Missed approach

NO	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 1-78 T-2C DUAL SNA/FS	FAM-8 CS _____ BINGO _____ ALT _____ _____ _____ _____ _____ _____ _____	1.5

Brief:

a. Gear not down and locked, handle down
b. Gear handle will not go down.
c. Main gear tire failed

Introduce:

a. High, dirty field entry

Practice:

a. Preflight
b. Ground operations
c. All checklists
d. Radio procedures
e. Takeoff/departure
f. Clean stalls
g. Dirty stalls
h. Unusual attitudes
i. Steep turn stall
j. Minimum radius turn
k. Aileron roll
l. Wingover
m. In-flight emergencies
n. Normal pattern
o. Full/half flap landings
p. Landings - other configurations

NO	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 1-79 Lecture	EMFP-3 Pre-solo Safety Review	1.0

NO	180°	90°	GROVE AND LANDING	CODE
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

[illegible]

[illegible]

[illegible]

NO.	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION		DURATION
MOD 1-R1	CR-2	Comprehensive course rules examination	2.0

NO.	180°	90°	GROOVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 1-82 T-2C DUAL SNA/PS	FAM-9 CS _____ BINGO _____ ALT _____ _____ _____ _____ _____ _____ _____	1.5

Brief:

a. Engine failure during flight
b. Nose wheel shimmy on takeoff
c. High oil pressure
d. Low oil pressure
e. Structural failure
f. Cycling flaps

Introduce:

a. Straight in approach

Practice:

a. Preflight
b. Ground operations
c. ATC checklists
d. Radio procedures
e. Takeoff/departure
f. Clean stalls
g. Dirty stalls
h. Unusual attitudes
i. Steep turn stall
j. Minimum radius turn
k. Aileron roll
l. Wingover
m. In-flight emergencies
n. Normal pattern
o. Full/half flap landings
p. Landings - other configurations

NO.	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 1-83 2H101 Motion	EP-55X CS _____ BINGO _____ ALT _____ _____ _____ _____ _____ _____ _____	1.5

Brief:

a. Oxygen system malfunctions
b. Lost plane procedures
c. IHF failure (emphasis on local SOP)

Review:

a. Start malfunctions (comprehensive review)
b. Fire on deck and tailpipe fire
c. Idle overtemp/oil pressure malfunctions on deck
d. MCC check malfunctions
e. Takeoff abort (high speed)
f. Engine fire and/or failure on takeoff
g. Canopy malfunctions
h. Unsafe gear up and down
i. Flap malfunctions
j. Trim system malfunctions
k. Electrical system malfunctions
l. Oil pressure malfunctions in flight
m. Hydraulic system malfunctions
n. Fuel system/transfer malfunctions
o. Ejection procedures
p. ADA failure/error
q. Pressure instruments malfunction
r. Engine failures - single and dual
s. Airstart procedures - normal and abbreviated
t. Single engine operations
u. Brake failure airborne
v. Engine fire in flight
w. Field arrestment procedures

NO	180°	90°	GROVE AND LANDING	COMP
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION		DURATION
MOD 1-84 Lecture	FAMFP-8	Overhead Aerobatic Maneuvers	0.5
MOD 1-85 Lecture	OCFP-1	Aerodynamic Principles of Out-of-Control Flight	2.0
MOD 1-86 Lecture	OCFP-2	T-2 Out-of-Control Characteristics and Syllabus Maneuvers	0.8

NO.	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 1-87 T-2C DUAL CNA/FS	FAM-10X CS_____ BINGO_____ ALT_____ _____ _____ _____ _____ _____ _____	1.5

Brief:

a. Electrical fire
b. Complete electrical failure
c. NORDO procedures

Review:

a. Preflight
b. Ground operations
c. All checklists
d. Radio procedures
e. Takeoff/departure
f. Clean stalls
g. Dirty stalls
h. Unusual attitudes
i. Steep turn stall
j. Minimum radius turn
k. Aileron roll
l. Wingover
m. Inflight emergencies
n. Recovery/pattern entry
o. Normal pattern
p. Full flap landings
q. Half flap landings
r. No flap landings
s. Go around landings
t. No flap, cross, S-T landings
u. Single engine landings

NO.	180°	90°	GROVE AND LANDING	COMT
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PP&VO REQUIREMENTS	DESCRIPTION	DURATION
DUO I-AM T-2C SOLO	PAM-II CS_____ ____ SING/_____ ALT_____ _____ _____ _____ _____ _____ _____	1.3

Practice:

a. Preflight
b. Ground operations
c. All checklists
d. Radio procedures
e. Takeoff/departure
f. Power off stall
g. Landing attitude maneuver
h. Landing attitude stall
i. Aileron roll
j. Ringaround
k. Recovery/break
l. Full flap landings
m. Half-flap landings

1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

[illegible]

NO.	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 1-92 2F101 Motion	RI-1S CS_____ BINGO_____ ALT_____ _____ _____ _____ _____ _____ _____	1.5

Brief:

a. Radar contact voice procedures
b. Basic airwork

Introduce:

a. TACAN/IFF/ID-249 usage
b. Receiving clearances
c. Tracking and bracketing
d. Direct routing
e. DME ground speed checks
f. Radial intercepts
g. Station passage
h. Point to point navigation
i. Intersections
j. Holding
k. Arcing

Practice:

a. Instrument scan
b. Radio procedures
c. Instrument takeoff/SID
d. TACAN penetration/approach
e. GCA pattern/approach
f. Missed approaches

NO.	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 1-93 2F101 Motion	RI-2S CS_____ BINGO_____ ALT_____ _____ _____ _____ _____ _____ _____	1.5

Brief:

a. non-radar contact voice procedures

Practice

a. Instrument scan
b. Receiving clearances/radio procedures
c. Instrument takeoff/SID
d. Arcing
e. Tracking and bracketing
f. TACAN/IFF/ID-249 usage
g. Direct routing
h. DME ground speed check
i. Station passage
j. Point-to-point navigation
k. Intersection
l. Radial intercepts
m. Holding
n. TACAN penetration/approach
o. GCA pattern/approach
p. Missed approaches

NO.	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

RIOD QUIREMENTS	DESCRIPTION	DURATION
D 1-94 2C AL A/FS	OCF-1 CS_____ BINGO_____ ALT_____ _____ _____ _____ _____ _____ _____	1.2

Brief:

a. Inadvertant Loss of Control

Demonstrate:

a. High AOA Flight/deep stall investigation

Introduce:

a. Cross-control departure
b. Zero airspeed departure
c. Adverse yaw departure* (Aileron reversal/ increasing yaw)
d. Rudder triplet departure*
e. Steady state spin; wings level entry
f. Incipient spin; rudder triplet entry
g. Mode recognition

Practice (if time/fuel permit):

a. Aerobatics (if done)
b. Landings (if touch & go's done)

*SNA responsible for recovery only on these maneuvers.

NO.	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 1-95 T-2C DUAL SNA/FS	FAM-12 CS_____ BINGO_____ ALT_____ _____ _____ _____ _____ _____ _____	1.5

Introduce:

a. Barrel roll
b. Loop
c. One-half Cuban eight
d. Immelmann
e. Vertical recovery
f. Ball control on full flap landings

Practice:

a. Ground operations
b. Takeoff/departure
c. Stalls
d. Unusual attitudes
e. Minimum radius turn
f. Aileron roll
g. Wingover
h. Inflight emergencies
i. Recovery/pattern entry
j. Normal pattern

NOTE: Ball control shall be practiced and graded on all full flap landings subsequent to this flight.

NO	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 1-96 T-2C SOLO	FAM-13 CS_____ BINGO_____ ALT_____ _____ _____ _____ _____ _____ _____	1.3

Practice:

a. Ground operations
b. Takeoff/departure
c. Stalls
d. Aileron roll
e. Wingover
f. Barrel roll
g. Loop
h. One-half Cuban eight
i. Immelmann
j. Recovery/pattern entry
k. Full flap landings
l. Half-flap landings

NO.	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 1-97 2F101 Motion	RI-3S CS_____ BINGO_____ ALT_____ _____ _____ _____ _____ _____ _____	1.5

Brief:

a. Lost communications procedures

Introduce:

a. DD-175/jet log
b. Flight planning
c. Emergencies (instrument related)
d. Non-radar contact voice procedures

Practice

a. Instrument scan
b. Receiving clearances/radio procedures
c. Instrument takeoff/SID
d. Arcing
e. Tracking and bracketing
f. Direct routing/ground speed check
g. Station passage
h. Point-to-point navigation
i. Intersections
j. Holding
k. TACAN penetration/approach
l. GCA pattern/approach
m. Missed approach
n. Radial intercepts

NO	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 1-98 2F101 Motion	RI-4S CS_____ BINGO_____ ALT_____ _____ _____ _____ _____ _____ _____	1.5

Introduce:

a. Radar departure
b. ADF/ARR-40 equipment usage
c. ADF tracking
d. ADF bearing intercepts
e. ADF station passage
f. ADF holding
g. ADF time/distance check
h. ADF penetration/approach (2 minimum)

Practice:

a. Instrument scan
b. Radio procedures
c. Instrument takeoff
d. GCA pattern/approach
e. Missed approaches

NO	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 1-99 T-2C DUAL SNA/FS	FAM-14 CS_____ BINGO_____ ALT_____ _____ _____ _____ _____ _____ _____	1.5

Practice:

a. Ground operations
b. Radio procedures
c. Takeoff/departure
d. Stalls (minimum of 2 maneuvers)
e. Unusual attitudes
f. Minimum radius turn
g. Aileron roll
h. Wingover
i. Barrel roll
j. Vertical recovery
k. Loop
l. One-half Cuban eight
m. Immelmann
n. In-flight emergencies
o. Recovery/pattern entry
p. Normal pattern
q. Full/half flap landings (min. 3)
r. Landings - other configurations (minimum of 3 types)

NO.	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD I-100 T-2C SOLO	FAM-15 CS_____ BINGO_____ ALT_____ _____ _____ _____ _____ _____ _____	1.3

Practice:

a. Ground operations
b. Takeoff/departure
c. Stalls
d. Aileron roll
e. Wingover
f. Barrel roll
g. Loop
h. One-half cuban eight
i. Immelmann
j. Recovery/pattern entry
k. Normal pattern
l. Full flap landings (6 minimum)

NO.	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 1-101 2F101 Motion	RI-5SX CS_____ BINGO_____ ALT_____ _____ _____ _____ _____ _____ _____	1.5

Brief:

a. Jet log/DD-175

Review:

a. Instrument scan
b. Radio procedures
c. Instrument takeoff/SID
d. Arcing
e. Tracking and bracketing
f. Holding (ADF and/or TACAN)
g. DME ground speed check/ADF time/distance check
h. Station passage (ADF and/or TACAN)
i. Point-to-point navigation
j. Bearing/radial intercepts
k. Intersections
l. Direct routing
m. ADF penetration/approach
n. TACAN penetration/approach
o. GCA pattern/approach
p. Missed approaches
q. Partial panel
r. Emergencies (instrument related)

NO	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 1-102 T-2C DUAL SNA/RS HOODED	RI-6 CS_____ BINGO_____ ALT_____ _____ _____ _____ _____ _____ _____	1.6

Practice:

a. Radio procedures
b. Instrument takeoff/SID
c. Arcing
d. Intersections/radial intercepts
e. Direct routing/ground speed checks
f. Tracking and bracketing
g. Station passage
h. Point-to-point navigation
i. Holding
j. TACAN penetration/approach
k. GCA pattern/approach
l. Missed approach

NO.	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 1-103 T-2C DUAL SNA/FS	OCF-2 CS_____ BINGO_____ ALT_____ _____ _____ _____ _____ _____ _____	1.2

Introduce:

a. High AOA flight/deep stall investigation

Practice:

a. Cross-control departure
b. Zero airspeed departure
c. Adverse yaw departure* (Aileron reversal/ increasing AOB)
d. Rudder triplet departure*
e. Steady state spin; wings level entry
f. Incipient spin; rudder triplet entry
g. Mode recognition
h. Aerobatics (if done, time/fuel permitting)
i. Landings (if touch & go's done, time/fuel permitting)

*SNA responsible for recovery only

NO.	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 1-104 T-2C DUAL SNA/FS	FAM-16X CS_____ BINGO_____ ALT_____ _____ _____ _____ _____ _____ _____	1.5

Review:

a. Ground operations
b. Radio procedures
c. Takeoff/departure
d. Stall
e. Unusual attitudes
f. Steep turn stall
g. Minimum radius turn
h. Rolling aerobatics
i. Overheads
j. Vertical recovery
k. In-flight emergencies
l. Recovery/pattern entry
m. Normal pattern
n. Full/half flap landings (min. 4)
o. Landings - other configurations (minimum of three types)

NO.	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 1-105 T-2C SOLO	FAM-17 CS_____ BINGO_____ ALT_____ _____ _____ _____ _____ _____ _____	1.3

Practice:

a. Ground operations
b. Takeoff/departure
c. Stalls
d. Aileron roll
e. Wingover
f. Barrel roll
g. Loop
h. One-half cuban eight
i. Immelmann
j. Recovery/pattern entry
k. Normal pattern
l. Full flap landings
m. Half flap landings

NO.	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 1-106 2F101 Motion	RI-7S CS_____ BINGO_____ ALT_____ _____ _____ _____ _____ _____ _____	1.6

Introduce:

a. Lost communication procedures

Practice:

a. Radio procedures
b. Instrument takeoff radar departure
c. Instrument scan
d. ADF bearing intercepts
e. ADF time/distance check
f. ADF Tracking
g. ADF Station passage
h. ADF holding
i. ADF penetration/approach (1 minimum)
j. GCA pattern/approach
k. Missed approach
l. Emergencies (instrument related)

NO.	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 1-107 T-2C DUAL SNA/RS NIGHT	RI-8 CS_____ BINGO_____ ALT_____ _____ _____ _____ _____ _____ _____	1.5

Practice:

a. Radio procedures
b. Instrument takeoff/SID
c. Arcing
d. Intersections/radial intercepts
e. Direct routing/ground speed checks
f. ADF holding
g. Tracking and bracketing
h. ADF penetration/approach
i. GCA pattern and approach
j. Station passage
k. Point-to-point navigation

NO	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 1-108 T-2C SOLO SNA/FS	RI-9S CS_____ BINGO_____ ALT_____ _____ _____ _____ _____ _____ _____	1.5

Practice:

a. Flight Planning
b. DD-175/Jet log
c. Lost communication procedures
d. Instrument scan
e. Radio procedures
f. Instrument takeoff/SID
g. Arcing
h. Tracking and bracketing
i. TACAN holding
j. Direct routing
k. Station passage
l. Point-to-point navigation
m. Radial intercepts
n. Radial intersections
o. TACAN penetration/approach
p. GCA pattern/approach
q. Missed approaches
r. Emergency procedures (instrument related)

NO	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 1-109 T-2C DUAL SNA/RS HOODED	RI-10X CS_____ BINGO_____ ALT_____ _____ _____ _____ _____ _____ _____	1.6

Review:

a. Flight planning
b. DD-175/Jet log
c. Radio procedures
d. Instrument takeoff/SID
e. Arcing
f. Tracking and bracketing
g. Holding
h. Station passage
i. Point-to-point navigation
j. Intersections/intercepts
k. Direct routing
l. TACAN penetration/approach
m. GCA pattern/approach
n. Missed approaches
o. Emergencies (instrument related)

NO.	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION		DURATION

MODULE 2

Objective: At completion of this module, the student will be able to operate his aircraft in formation flight, airways navigation, and night familiarization.

MOD 2-1 Lecture	EMFP-4	Formation Emergencies	1.0
MOD 2-2 Lecture	FFP-1	Introduction to Formation	0.8
MOD 2-3	FFP-2	Section Parade Procedures	1.5

NO.	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 2-4 2F101 Motion	EP-6S CS_____ BINGO_____ ALT_____ _____ _____ _____ _____ _____ _____	1.5

Brief:

a. Lost communications/HEFOE signals
b. IFR Lost sight
c. Severe nose wheel shimmy

Introduce (with emphasis on formation procedures):

a. Abort procedures (FORM)
b. Mid-air/structural damage

Practice:

a. Start malfunctions
b. Fire on deck
c. Brake failure
d. Engine malfunctions on deck
e. Emergency egress
f. Engine fire/failure on takeoff
g. Landing gear malfunctions
h. Airstart
i. Ejection procedures
j. Electrical malfunctions
k. Engine fire/failure in-flight
l. Trim system failure
m. Flap malfunctions
n. In-flight vibrations
o. Oil pressure malfunctions
p. Fuel system malfunctions
q. Hydraulic system malfunctions
r. AOA failure/malfunction

NO.	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 2-5 T-2C DUAL SNA/FS	FORM-1 CS_____ BINGO_____ ALT_____ _____ _____ _____ _____ _____ _____	1.4

Demonstrate:

a. Running rendezvous (wingman only)
b. Breakup/column
c. Pattern
d. Join-up
e. Lead change
f. Flight lead
g. Formation recovery (wingman only)

Introduce:

a. Marshalling
b. Parade position
c. Parade turns
d. Basic crossunders

Practice:

a. Full flap landings (approximately 4)

NOTE: If weather precludes a running rendezvous on departure, another type departure may be substituted; however, the running rendezvous must be demonstrated and introduced prior to FORM-8X.

NO.	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 2-6 T-2C DUAL SNA/FS	FORM-2 CS_____ BINGO_____ ALT_____ _____ _____ _____ _____ _____ _____	1.4

Demonstrate:

a. Running rendezvous (wingman only)

Introduce:

a. Breakup/column
b. Pattern
c. Join-up
d. Lead change
e. Flight lead
f. Formation recovery

Practice:

a. Marshalling
b. Parade position
c. Parade turns
d. Basic crossunders
e. Full flap landings (approximately 4)

NO.	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 2-7 T-2C DUAL SNA/FS	FORM-3 CS_____ BINGO_____ ALT_____ _____ _____ _____ _____ _____ _____	1.4

Demonstrate:

a. Underrun technique

Practice:

a. Running rendezvous (wingman only)
b. Parade position
c. Parade turns
d. Basic crossunders
e. Breakup/column
f. Pattern
g. Join-up
h. Lead change
i. Flight lead
j. Formation recovery
k. Full flap landings (approx. 4)

NO	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION		DURATION
	AIRWAYS NAVIGATION FLIGHT PROCEDURES		
MOD 2-8 Lecture	ANFP-1	Review of the Air Traffic Control System and Flight Publications	1.0
MOD 2-9 Lecture	ANFP-2	Cross-Country Preflight Preparation	1.0
MOD 2-10 Lecture	ANFP-3	Departure, En route, and Terminal Procedures	1.0

NO	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 2-11 T-2C DUAL SNA/FS	FORM-4 CS_____ BINGO_____ ALT_____ _____ _____ _____ _____ _____ _____	1.4

Introduce:

a. Underrun technique

Practice:

a. Running rendezvous (wingman only)
b. Parade position
c. Parade turns
d. Basic crossunders
e. Breakup/column
f. Pattern
g. Join-up
h. Lead change
i. Flight lead
j. Formation recovery
k. Full flap landings (approximately 4)

NO.	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 2-12 T-2C DUAL SNA/FS	FORM-5 CS_____ BINGO_____ ALT_____ _____ _____ _____ _____ _____ _____	1.4

Demonstrate:

a. Section takeoff

Practice:

a. Parade position
b. Parade turns
c. Basic crossunders
d. Breakup/column
e. Pattern
f. Join-up
g. Underrun technique
h. Lead change
i. Flight lead
j. Formation recovery
k. Full flap landings (approximately 4)

NOTE: If a section takeoff has been performed on earlier flights, because weather precluded a running rendezvous, perform a running rendezvous on FORM-5 and-6.

NO.	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 2-13 2F101 Motion	AN-1S CS_____ BINGO_____ ALT_____ _____ _____ _____ _____ _____ _____	1.7

Brief:

a. Clearance limit/EFC
b. Lost communication missed approach

Introduce:

a. Weather considerations
b. Jet route procedures
c. NAVAID Failure
d. Change over points
e. Fuel management/max range profile

Practice:

a. Instrument scan
b. Flight planning
c. Radio procedures
e. Instrument takeoff/departure
f. Holding
g. Point-to-point navigation
h. DME ground speed check
i. TACAN penetration/approach
j. GCA pattern/approach
k. Missed approach procedures

NO.	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 2-14 2F101 Motion	AN-2S CS_____ BINGO_____ ALT_____	1.7

Brief:

a. Stopover/en route delay procedure
b. Change of route/destination (DRAFT)
c. En route descent (approach pickup)

Introduce:

a. Clearance limit/EFC
b. Lost communication missed approach (DRAFT)

Practice:

a. Instrument scan
b. Flight planning
c. Radio procedures
d. ITO/departure
e. Jet route procedures
f. Weather considerations
g. Holding
h. Point-to-point navigation
i. Fuel management
j. TACAN penetration/approach
k. CCA pattern/approach
l. Missed approach procedures
m. Emergencies (related to instrument flight)

NO.	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 2-15 T-2C DUAL SNA/FS	FORM-6 CS_____ BINGO_____ ALT_____ _____ _____ _____ _____ _____ _____	1.4

Demonstrate:

a. Section takeoff (wingman only)

Practice:

a. Parade position
b. Parade turns
c. Basic crossunders
d. Breakup/column
e. Pattern
f. Join-up
g. Underrun technique
h. Lead change
i. Flight lead
j. Formation recovery
k. Full flap landings (approximately 3)

NO	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 2-16 T-2C DUAL SNA/FS	FORM-7 CS_____ BINGO_____ ALT_____ _____ _____ _____ _____ _____ _____	1.4

Practice:

a. Running rendezvous (wingman only)
b. Parade position
c. Parade turns
d. Basic crossunders
e. Breakup/column
f. Pattern
g. Join-up
h. Underrun technique
i. Lead change
j. Flight lead
k. Formation recovery
l. Full flap landings (approximately 3)

NO.	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 2-17 2F101 Motion	AN-3S CS_____ BINGO_____ ALT_____	1.7

Brief:

a. En route holding/EFC

Introduce:

a. Stopover/en route delay flight plan/ procedures
b. Change of route/destination (DRAFT)
c. En route descent (approach pickup)

Practice:

a. Instrument scan
b. Flight planning
c. Radio procedures
d. ITO/radar departure
e. Jet route procedures
f. Weather considerations
g. Holding
h. Point-to-point navigation
i. Fuel management
j. TACAN penetration/approach
k. GCA pattern/approach
l. Missed approach
m. Lost communication procedures/NORDO
n. Emergencies (instrument related)

NO.	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
AN 2-18 2F101 Motion	AN-4S CS_____ BINGO_____ ALT_____ _____ _____ _____ _____ _____ _____	1.7

Introduce:

a. En route holding/EFC
b. Low fuel emergency

Practice:

a. Instrument scan
b. Flight planning
c. Radio procedures
d. LTO/departure
e. Jet route procedures
f. Weather considerations
g. Holding
h. Point-to-point navigation
i. Fuel management
j. TACAN penetration/approach
k. GCA pattern/approach
l. Missed approach procedures
m. Lost communication procedures
n. Changing/filing flight plan (DRAFT)
o. Stopover/en route delay procedures
p. En route descents
q. Emergencies (instrument related)

NO.	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 2-19 T-2C DUAL SNA/FS	FORM-8X CS_____ BINGO_____ ALT_____ _____ _____ _____ _____ _____ _____	1.4

Review:

a. Running rendezvous (wingman only)
b. Parade position
c. Parade turns
d. Basic crossunders
e. Breakup/column
f. Pattern
g. Join-up
h. Underrun technique
i. Lead change
j. Flight lead
k. Formation recovery
l. Full flap landings (approximately 3)

NO.	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 2-20 Lecture	FFP-3 Section Cruise	1.0

NO	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 2-21 2F101 Motion	AN-5SX CS_____ BINGO_____ ALT_____ _____ _____ _____ _____ _____ _____	1.7

Review:

a. Instrument scan
b. Flight planning
c. Radio procedures
d. ITO/departure
e. Jet route procedures
f. Weather considerations
g. Holding
h. Point-to-point navigation
i. Fuel management
j. TACAN penetration/approach
k. GCA pattern/approach
l. Missed approach
m. Lost communication procedures
n. Changing/filing flight plan (DRAFT)
o. Stopover/en route delay procedures
p. En route descent (approach pickup)
q. Emergencies

NO	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 2-22 T-2C SOLO	FORM-9 CS_____ BINGO_____ ALT_____ _____ _____ _____ _____ _____ _____	1.4

Practice:

a. Running rendezvous (wingman only)
b. Parade position
c. Parade turns
d. Basic crossunder
e. Breakup and rendezvous
f. Lead change
g. Flight lead
h. Formation break (wingman only)
i. Landings

NO.	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 2-23 T-2C DUAL SNA/RS HOODED 2 LEGS	AN-6 CS_____ BINGO_____ ALT_____ _____ _____ _____ _____ _____ _____	3.4

Practice:

a. Flight planning
b. Radio procedures
c. ITO/departure
d. Jet route procedures
e. Weather considerations
f. Holding
g. Point-to-point navigation
h. Fuel management
i. Stopover/en route delay procedures
j. En route descent (approach pickup)
k. TACAN penetration/approach
l. GCA pattern/approach
m. Missed approach

NO.	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 2-24 T-2C DUAL SNA/FS NIGHT	AN-7 CS_____ BINGO_____ ALT_____ _____ _____ _____ _____ _____ _____	1.7

Practice:

a. Flight planning
b. Radio procedures
c. ITO/departure
d. Jet route procedures
e. Weather considerations
f. Holding
g. Point-to-point navigation
h. Fuel management
i. En route descent or TACAN penetration
j. GCA pattern/approach
k. Missed approaches

NO	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 2-25 T-2C DUAL SNA/FS	FORM-10 CS_____ BINGO_____ ALT_____ _____ _____ _____ _____ _____ _____	1.4

Introduce:

a. Section takeoff (wingman only)
b. Parade turns with reversals
c. Standard crossunders
d. 200 kt rendezvous
e. Cruise turns with reversals
f. Section approach (wingman only)

Practice:

a. Parade position
b. Breakup and rendezvous
c. Lead change
d. Flight lead
e. Landings (approximately 3)

NO.	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 2-26 T-2C DUAL SNA/FS	FORM-11 CS_____ BINGO_____ ALT_____ _____ _____ _____ _____ _____ _____	1.4

Introduce:

a. Section takeoff (wingman only)
b. Section approach (wingman only)

Practice:

a. Parade position
b. Parade turns with reversals
c. Standard crossunders
d. Breakup and rendezvous
e. 200 kt rendezvous
f. Cruise turns with reversals
g. Lead change
h. Flight lead
i. Landings (approximately 3)

NO.	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION			DURATION
MOD 2-27 T-2C DUAL SNA/RS HOODED 2 LEGS	AN-8 CS_____ _____ _____	BINGO_____ _____ _____	ALT_____ _____ _____	3.4

Practice:

a. Flight planning
b. Radio procedures
c. ITO/departure
d. Jet route procedures
e. Weather considerations
f. Holding
g. Point-to-point navigation
h. Fuel management
i. Stopover/en route delay procedures
j. En route descent (approach pickup)
k. TACAN penetration/approach
l. GCA pattern/approach
m. Missed approach

NO	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 2-28 T-2C DUAL SNA/FS NIGHT	AN-9 CS_____ BINGO_____ ALT_____	1.7

Practice:

a. Flight planning
b. Radio procedures
c. ITO/departure
d. Jet route procedures
e. Weather considerations
f. Holding
g. Point-to-point navigation
h. Fuel management
i. En route descent or TACAN penetration
j. CCA pattern/approach
k. Missed approach

NO	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 2-29 Lecture	FFP-4 Division Parade Formation	1.0

NO	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 2-30 T-2C DUAL SNA/FS	FORM-12X CS_____ BINGO_____ ALT_____ _____ _____ _____ _____ _____ _____	1.4

Review:

a. Running rendezvous (wingman only)
b. Parade position
c. Parade turns with reversals
d. Standard crossunders
e. Breakup and rendezvous
f. 200 kt rendezvous
g. Cruise turns with reversals
h. Lead charge
i. Flight lead
j. Formation recovery
k. Landings (approximately 3)

NO	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 2-31 T-2C SOLO	FORM-13 CS_____ BINGO_____ ALT_____ _____ _____ _____ _____ _____ _____	1.4

Practice:

a. Running rendezvous (wingman only)
b. Parade position
c. Parade turns with reversals
d. Standard crossunders
e. Breakup and rendezvous
f. 200 kt rendezvous
g. Cruise turn with reversals
h. Lead charge
i. Flight lead
j. Formation break (wingman only)
k. Landings (approximately 3)

NO.	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 2-32 T-2C DUAI SNA/RS HOODED	AN-10X CS_____ BINGO_____ ALT_____ _____ _____ _____ _____ _____ _____	1.7

Review:

a. Flight planning
b. Radio procedures
c. ITO/departure
d. Jet route procedures
e. Weather considerations
f. Holding
g. Point-to-point navigation
h. Fuel management
i. Change of route/destination (DRAFT)
j. En route descent or TACAN penetration
k. TACAN penetration/approach
l. CCA pattern/approach
m. Missed approach

NO.	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION		DURATION
MCP 2-33 Lecture	NFFP-1	Introduction to Night Flying	0.4
MCP 2-34 Lecture	NFFP-2	Night Flying Operations	0.8
MCP 2-35 Lecture	NFFP-3	Night Emergency Procedures	1.0

NO.	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 2-36 T-2C DUAL SNA/FS	FORM-14 CS_____ BINGO_____ ALT_____ _____ _____ _____ _____ _____ _____	1.4

Introduce:

a. Four-plane 200 kt. initial rendezvous (2, 3 and 4 only)
b. Crossunders (all positions)
c. Echelon position
d. Division lead change
e. Breakup and column
f. Pattern
g. Join-up
h. Flight lead
i. Formation recovery

Practice:

a. Parade position
b. Parade turns with reversals
c. Landings (approximately 3)

NO	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 2-37 T-2C DUAL SNA/FS	FORM-15X CS_____ BINGO_____ ALT_____ _____ _____ _____ _____ _____ _____	1.4

Review:

a. Four-plane 200 kt. initial rendezvous (2, 3 and 4 only)
b. Parade position
c. Parade turns with reversals
d. Crossunders (all positions)
e. Echelon position
f. Division lead change
g. Breakup and column
h. Pattern
i. Join-up
j. Flight lead
k. Formation recovery
l. Landings (approximately 3)

NO.	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

ERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 2-38 T-2C SOLO	FORM-16 CS_____ BINGO_____ ALT_____ _____ _____ _____ _____ _____ _____	1.4

Practice:

a. Four-plane 200 kt. initial rendezvous (2, 3 and 4 only)
b. Parade position
c. Parade turns with reversals
d. Crossunders (all positions)
e. Echelon position
f. Division lead change
g. Breakup and rendezvous
h. Flight lead
i. Formation recovery
j. Landings (approximately 3)

NO.	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

ERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 2-39 T-2C SOLO	FORM-17 CS_____ BINGO_____ ALT_____ _____ _____ _____ _____ _____ _____	1.4

Practice:

a. Four-plane 200 kt. initial rendezvous (2, 3 and 4 only)
b. Parade position
c. Parade turns with reversals
d. Crossunders (all positions)
e. Echelon position
f. Division lead change
g. Breakup and rendezvous
h. Flight lead
i. Formation recovery
j. Landings (approximately 3)

NO	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 2-40 T-2C DUAL SNA/FS NIGHT	NF-1X CS_____ BINGO_____ ALT_____ _____ _____ _____ _____ _____ _____	1.5

Brief:

a. NORDO Procedures
b. IFR weather
c. Lost aircraft
d. Electrical failure

Review:

a. Preflight planning
b. Night ground procedures
c. Takeoff/departure
d. DR navigation
e. Field entry/break
f. Pattern
g. Full flap landings
h. Half-flap landings
i. No flap landings
j. Boost off landings
k. Single engine landings
l. No flap, trim, S/B landings
m. Simulated emergencies

NO	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

ERIOD
REQUIREMENTS | DESCRIPTION | DURATION

MOD 2-41
T-2C
SOLO
NIGHT

NF-2

1.3

CS_____ BINGO_____ ALT_____

Practice:

a. Voice communications
b. DR navigation

NO	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 2-42 T-2C SOLO NIGHT	NF-3 CS _____ BINGO _____ ALT _____ _____ _____ _____ _____ _____ _____	1.3

Practice:

a. Voice communications
b. DR navigation

NO	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION		DURATION

MODULE 3

Objective: At completion of this module, the student will be able to perform low level VFR navigation, air to air gunnery and carrier qualifications with pertinent emergency procedures.

MOD 3-1 Ground School	ONAV-1	Introduction to Low-Level Navigation	1.5
MOD 3-2 Ground School	ONAV-2	Aircraft Flight Profile Characteristics	1.5
MOD 3-3 Ground School	ONAV-3	Review of the Navigation Computer	1.0
MOD 3-4 Ground School	ONAV-4	VFR Low Altitude Training	4.0
MOD 3-5 Ground School	ONAV-5	Low-level Route Corrections	1.0
MOD 3-6 Ground School	ONAV-6	ONAV-1 Flight Planning	3.0
MOD 3-7 Ground School	ONAV-7	Final Examination	2.0

NOTE: ONAV Ground School may be completed during Module 2.

MOD 3-8 Lecture	Program review of the ONAV FTI/SW with outline of squadron procedures, to include local procedures, specific routes, and safety procedures.	2.0

NO	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 3-9 T-2C DUAL SNA/FS	ONAV-1 CS_____ BINGO_____ ALT_____ _____ _____ _____ _____ _____ _____	1.4

Brief:

a. Bird strike
b. Damaged aircraft
c. Low altitude flameout

Introduce:

a. Preflight preparation
b. Knowledge of route
c. Lookout doctrine
d. Map interpretation
e. Airspeed control
f. Altitude control
g. Heading control
h. Time corrections
i. Course corrections
j. Fuel management
k. Recovery

Practice:

a. Landings (approximately 3)

NO.	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 3-10 T-2C DUAL SNA/FS	ONAV-2 CS_____ BINGO_____ ALT_____	1.4

Brief:

a. Inadvertent IFR
b. Low altitude roll-ins
c. Target fixation

Demonstrate:

a. Pop-up attack (if able)

Practice:

a. Prelight preparation
b. Knowledge of route
c. Lookout doctrine
d. Map interpretation
e. Airspeed control
f. Altitude control
g. Heading control
h. Time corrections
i. Course corrections
j. Fuel management
k. Recovery
l. Landings (approximately 3)

NO.	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 3-11 T-2C DUAL SNA/FS	ONAV-3 CS_____ BINGO_____ ALT_____	1.4

Brief:

a. Bingo fuel
b. Lost plane
c. NORDO procedures

Introduce:

a. High leg/idle letdown
b. Bingo profile

Practice:

a. Preflight preparation
b. Knowledge of route
c. Lookout doctrine
d. Map interpretation
e. Airspeed control
f. Altitude control
g. Heading control
h. Time corrections
i. Course corrections
j. Fuel management
k. Recovery
l. Landings (approximately 3)

NO	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 3-12 T-2C DUAL SNA/FS	ONAV-4X CS_____ BINGO_____ ALT_____	1.4

Brief:

a. Selected emergencies

Review:

a. Preflight preparation
b. Knowledge of route
c. Lookout doctrine
d. Map interpretation
e. Airspeed control
f. Altitude control
g. Heading control
h. Time corrections
i. Course corrections
j. Fuel management
k. High leg/idle letdown
l. Pop-up attack (if able)
m. Bingo profile
n. Recovery
o. Landings (approximately 3)

NO	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

ERIOD REQUIREMENTS	DESCRIPTION		DURATION
MOD 3-13 Lecture	GFP-1	Introduction to Air-to-Air Gunnery	0.5
MOD 3-14 Lecture	GFP-2	Armament and Gunsight Systems	0.5
MOD 3-15 Lecture	GFP-3	Gunnery Pattern Procedures	1.6
MOD 3-16 Lecture	GFP-4	Safety and Emergency Procedures	0.4

NO	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 3-17 T-2C DUAL SNA/FS	OCF-3X CS_____ BINGO_____ ALT_____ _____ _____ _____ _____ _____ _____	1.2

Review:

a. Inadvertant loss of control (discuss)
b. Cross-controlled departure
c. High AOA flight/deep stall investigation
d. Zero airspeed departure
e. Adverse yaw departure (aileron reversal/increasing AOB)
f. Rudder triplet departure
g. Steady state spin; level entry (aileron reversal/increasing AOB)
h. Incipient spin; rudder triplet entry
i. Mode recognition
j. Aerobatics (if done, time/fuel permitting)
k. Landings (if touch & go's done, time/fuel permitting)

NO	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 3-18 T-2C DUAL SNA/FS	GUN-1 CS_____ BINGO_____ ALT_____ _____ _____ _____ _____ _____ _____	1.2

Demonstrate:

a. Radio procedures
b. Spacer pass (2, 3 and 4 only)
c. Turn to high reversal
d. High reversal
e. Turn to perch
f. Perch
g. Initial turn
h. Low reversal
i. Tracking
j. Recovery
k. Perch rendezvous (2, 3 and 4 only)
l. High waveoff
m. Correction techniques
n. Response to tractor
o. NORDO run

Practice:

a. Formation
b. 200 kt. CV rendezvous
c. Landings

NO.	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 3-19 T-2C DUAL SNA/FS	GUN-2 CS_____ BINGO_____ ALT_____ _____ _____ _____ _____ _____ _____	1.2

Introduce:

a. Radio procedures
b. Spacer pass (2, 3 and 4 only)
c. Turn to high reversal
d. High reversal
e. Turn to perch
f. Perch
g. Initial turn
h. Low reversal
i. Tracking
j. Recovery
k. Perch rendezvous (2, 3, and 4 only)
l. High waveoff
m. Correction technique
n. Response to tractor

Practice:

a. 200 kts CV rendezvous (2 and 3 only)
b. Formation (2 and 3 only)
c. Landings (approximately 3)

Note: If this flight is being flown as the lead then introduced items noted by (2, 3 and 4 only) must be introduced on GUN-3

NO	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 3-20 T-2C DUAL SNA/FS	GUN-3 CS_____ BINGO_____ ALT_____ _____ _____ _____ _____ _____ _____	1.2

Introduce:

a. Spacer Pass (2, 3 and 4 only)
b. Perch rendezvous
(2, 3 and 4 only)

Practice:

a. Formation (2 and 3 only)
b. Turn to high reversal
c. High reversal
d. Turn to perch
e. Perch
f. Initial turn
g. Low reversal
h. Tracking
i. Recovery
j. High waveoff
k. 200 kt. CV rendezvous
l. Correction technique
m. Response to tractor
n. Landings (approximately 3)

NO	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 3-21 T-2C DUAL SNA/FS	GUN-4	1.2

CS_____ BINGO_____ AZ_____

_____ _____ _____

_____ _____ _____

Practice:

a. Formation (2 and 3 only)
b. Spacer pass (2, 3 and 4 only)
c. Turn to high reversal
d. High reversal
e. Turn to perch
f. Perch
g. Initial turn
h. Low reversal
i. Tracking
j. Recovery
k. Perch rendezvous (2, 3, and 4 only)
l. 200 kts CV rendezvous (2, 3, and 4 only)
m. High waveoff
n. Correction technique
o. Response to tractor
p. Landings (approximately 3)

NO	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 3-22 T-2C DUAL SNA/FS	GUN-5 CS_____ BINGO_____ ALT_____ _____ _____ _____ _____ _____ _____	1.2

Practice:

a. Formation (2 and 3 only)
b. Spacer pass (2, 3 and 4 only)
c. Turn to high reversal
d. High reversal
e. Turn to perch
f. Perch
g. Initial turn
h. Low reversal
i. Tracking
j. Recovery
k. Perch rendezvous (2, 3 and 4 only)
l. 200 kts CV rendezvous (2, 3 and 4 only)
m. High waveoff
n. Correction technique
o. Response to tractor
p. Landings (approximately 3)

NO	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 3-23 T-2C DUAL SNA/FS	GUN-6X CS_____ BINGO_____ ALT_____ _____ _____ _____ _____ _____ _____	1.2

Review:

a. Formation (2 and 3 only)
b. Spacer pass (2, 3 and 4 only)
c. Turn to high reversal
d. High reversal
e. Turn to perch
f. Perch
g. Initial turn
h. Low reversal
i. Tracking
j. Recovery
k. Perch rendezvous (2, 3 and 4 only)
l. 200 kts CV rendezvous (2, 3 and 4 only)
m. High waveoff
n. Correction technique
o. Response to tractor
p. Landings (approximately 3)

NO	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 3-24 2F101 Motion	EP-7S CS_____ BINGO_____ ALT_____ _____ _____ _____ _____ _____ _____	1.5

Introduce (with emphasis on Gunnery procedures):

a. Bingo fuel GUN pattern

Practice:

a. Start emergencies
b. Fire on deck
c. Brake failure
d. Engine malfunctions on deck
e. Takeoff abort
f. Engine fire/failure on takeoff
g. Landing gear malfunctions
h. Airstart
i. Ejection procedures
j. Electrical malfunctions
k. Engine fire
l. Engine failure in flight
m. Trim system failure
n. Flap malfunctions
o. In-flight vibrations
p. Oil pressure malfunctions
q. Fuel system malfunctions
r. Hydraulic malfunctions
s. Mid-air/structural damage
t. Out-of-control flight

NO.	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 3-25 T-2C SOLO	GUN-7 CS_____ BINGO_____ ALT_____ _____ _____ _____ _____ _____ _____	1.2

Practice:

a. Formation (2 and 3 only)
b. Spacer pass (2, 3 and 4 only)
c. Turn to high reversal
d. High reversal
e. Turn to perch
f. Perch
g. Initial turn
h. Low reversal
i. Tracking
j. Recovery
k. Perch rendezvous (2, 3 and 4 only)
l. 200 Kts CV rendezvous (2, 3 and 4 only)
m. High waveoff (if flown)
n. Correction technique
o. Response to tractor
p. Landings (approximately 3)

NO	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 3-26 T-2C SOLO	GUN-8 CS_____ BINGO_____ ALT_____ _____ _____ _____ _____ _____ _____	1.2

Practice:

a. Formation (2 and 3 only)
b. Spacer pass (2, 3 and 4 only)
c. Turn to high reversal
d. High reversal
e. Turn to perch
f. Perch
g. Initial turn
h. Low reversal
i. Tracking
j. Recovery
k. Perch rendezvous (2, 3 and 4 only)
l. 200 Kts CV rendezvous (2, 3 and 4 only)
m. High waveoff (if flown)
n. Correction technique
o. Response to tractor
p. Landings (approximately 3)

NO	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION		DURATION
MOD 3-27 Lecture	CQFP-1	Introduction to Field Carrier Landing Practice (FCLP)	0.5
MOD 3-28 Lecture	CQFP-2	FCLP Pattern	1.5
MOD 3-29 Lecture	CQFP-3	Carrier Qualification Procedures	2.0

NO	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 3-30 T-2C DUAL SNA/FS	CQ-1 CS_____ BINGO_____ ALT_____ _____ _____ _____ _____ _____ _____	0.6

Demonstrate:

a. Pattern
b. Start position
c. Speed control
d. Attitude control
e. Power control
f. Line up
g. Glideslope control
h. Error detection/correction
i. Waveoff technique

Introduce:

a. CQ course rules
b. Pattern entry/break

NOTE: Instructor demonstrates four passes, and student flies the remainder. FCLP periods should consist of eight approaches, but may be completed with a minimum of six, at the discretion of the LSO/instructor.

NO	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 3-31 T-2C DUAL SNA/FS	CQ-2X CS_____ BINGO_____ ALT_____ _____ _____ _____ _____ _____ _____	0.6

Review:

a. Course rules
b. Pattern entry/break
c. Pattern
d. Start position
e. Speed control
f. Attitude control
g. Power control
h. Line up
i. Glideslope control
j. Response to LSO
k. Error detection/correction
l. Waveoff technique

NO	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 3-32 T-2C SOLO	CQ-3 CS_____ BINGO_____ ALT_____ _____ _____ _____ _____ _____ _____	0.6

Practice:

a. Pattern
b. Start position
c. Speed control
d. Attitude control
e. Power control
f. Line up
g. Glideslope control
h. Error detection/correction
i. Waveoff technique
j. Response to LSO

NO	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 3-33 T-2C SOLO	CQ-4 CS_____ BINGO_____ ALT_____ _____ _____ _____ _____ _____ _____	0.6

Practice:

a. Pattern
b. Start position
c. Speed control
d. Attitude control
e. Power control
f. Line up
g. Glideslope control
h. Error detection/correction
i. Waveoff technique
j. Response to LSO

NO	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 3-34 T-2C SOLO	CQ-5 CS_____ BINGO_____ ALT_____ _____ _____ _____ _____ _____ _____	0.6

Practice:

a. Pattern
b. Start position
c. Speed control
d. Attitude control
e. Power control
f. Line up
g. Glideslope control
j. Error detection/correction
k. Waveoff technique
l. Response to LSO

NO.	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 3-35 T-2C SOLO	CQ-6 CS_____ BINGO_____ ALT_____ _____ _____ _____ _____ _____ _____	0.6

Practice:

a. Pattern
b. Start position
c. Speed control
d. Attitude control
e. Power control
f. Line up
g. Glideslope control
h. Error detection/correction
i. Waveoff technique
j. Response to LSO

NO.	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD QUIREMENTS	DESCRIPTION			DURATION
D 3-36 2C .O	CQ-7 CS_____	BINGO_____	ALT_____	0.6
	_____	_____	_____	
	_____	_____	_____	

Practice:

a. Pattern
b. Start position
c. Speed control
d. Attitude control
e. Power control
f. Line up
g. Glideslope control
h. Error detection/correction
i. Waveoff technique
j. Response to LSO

NO.	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 3-37 T-2C SOLO	CQ-8 CS_____ BINGO_____ ALT_____ _____ _____ _____ _____ _____ _____	0.8

Practice:

a. Pattern
b. Start position
c. Speed control
d. Attitude control
e. Power control
f. Line up
g. Glideslope control
h. Error detection/correction
i. Waveoff technique
j. Response to LSO

NO	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 3-38 T-2C SOLO	CQ-9 CS_____ BINGO_____ ALT_____ _____ _____ _____ _____ _____ _____	0.6

Practice:

a. Pattern
b. Start position
c. Speed control
d. Attitude control
e. Power control
f. Line up
g. Glideslope control
h. Error detection/correction
i. Waveoff technique
j. Response to LSO

NO.	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 3-39 T-2C SOLO	CQ-10X CS_____ BINGO_____ ALT_____ _____ _____ _____ _____ _____ _____	0.6

Review:

a. Pattern
b. Start position
c. Speed control
d. Attitude control
e. Power control
f. Line up
g. Glideslope control
h. Error detection/correction
i. Waveoff technique
j. Response to LSO
k. Progress

NO.	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 3-40 2F101 Motion	EP-8S CS_____ BINGO_____ ALT_____ _____ _____ _____ _____ _____ _____	1.5

Introduce:

a. Suspend procedures
b. Engine fire(s) off the Cat.
c. Engine failure(s) off the Cat.
d. Holdback failure

Practice:

a. Start emergencies
b. Fire on deck
c. Brake failure on deck
d. Engine malfunctions on deck
e. Landing gear malfunctions
f. Airstarts
g. Ejection procedures
h. Electrical malfunctions
i. Trim malfunctions
j. Flap malfunctions
k. Oil pressure malfunctions
l. Fuel system malfunctions
m. Hydraulic system malfunctions
n. In-flight vibrations
o. AOA failure/error
p. Tire failure
q. Abbreviated airstart
r. Bingo fuel profile

NO.	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PERIOD REQUIREMENTS	DESCRIPTION	DURATION
MOD 3-41 T-2C SOLO	CQ-11X CS_____ BINGO_____ ALT_____ _____ _____ _____ _____ _____ _____	1.8

Review:

a. Pattern
b. Start Position
c. Speed Control
d. Attitude control
e. Power control
f. Line up
g. Glideslope control
h. Error detection/correction
i. Waveoff technique
j. T & G/bolter technique
k. Response to LSO
l. Formation/pattern entry
m. Radio procedures
n. Fuel management
o. Deck procedures
p. Catapult procedures

NOTE: The student shall make two touch-and-go landings and four arrested landings aboard ship.

NO.	180°	90°	GROVE AND LANDING	CONF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				